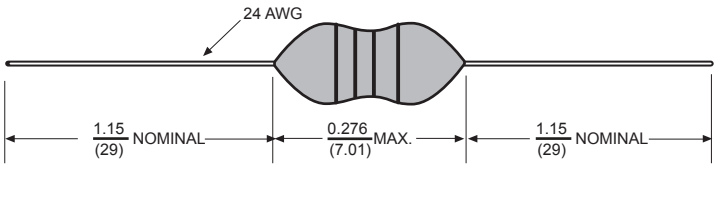
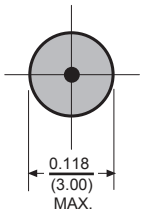
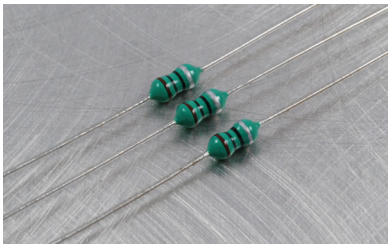
# AC20 Axial Coated Inductors

RoHS

**Dimensions:** Inches (mm)



## Features

- Incorporation of a special lead wire structure entirely eliminates defects inherent in existing axial lead type products and prevents lead breakage.
- The special magnetic core structure permits the product to have reduced size, high "Q" and self resonant frequencies.
- Treated with epoxy resin coating for humidity resistance to ensure longer life.
- Heat resistant adhesives and special structural design for effective open circuit measurement.

## Electrical

**Inductance Range:** .027µh to 1000µh.
**Tolerance:** 10% over entire range. Tighter tolerances available
**Temp. Rise:** 20°C.
**Ambient Temp.:** 80°C.
**Rated Temp Range:** -20 to 100°C.
**Dielectric Withstanding Voltage:** 250 Volts R.M.S.
**Rated Current:** Based on temp rise.

## Mechanical

**Terminal Tensile Strength:** 1.0 kg min.
**Terminal Bending Strength:** .3 kg min.

## Physical

**Marking (on reel):** Manufacturers name, Part number, Quantity,
**Marking:** 4 band color code.
**Packaging:** 5000 pieces per reel.

| Allied Part Number | Inductance (µh) | Tolerance (%) | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. (Ω) | Rated Current (mA) |
|---|---|---|---|---|---|---|---|
| AC20-R027M-RC | 0.027 | 20 | 40 | 50.0 | 500 | 0.02 | 520 |
| AC20-R033M-RC | 0.033 | 20 | 40 | 50.0 | 490 | 0.02 | 500 |
| AC20-R039M-RC | 0.039 | 20 | 40 | 50.0 | 480 | 0.02 | 500 |
| AC20-R047M-RC | 0.047 | 20 | 40 | 50.0 | 480 | 0.03 | 500 |
| AC20-R056M-RC | 0.056 | 20 | 40 | 50.0 | 470 | 0.045 | 460 |
| AC20-R068M-RC | 0.068 | 20 | 40 | 50.0 | 470 | 0.05 | 460 |
| AC20-R082M-RC | 0.082 | 20 | 40 | 50.0 | 470 | 0.05 | 460 |
| AC20-R10K-RC | .10 | 10 | 40 | 25.2 | 470 | 0.08 | 700 |
| AC20-R12K-RC | .12 | 10 | 40 | 25.2 | 450 | 0.08 | 700 |
| AC20-R15K-RC | .15 | 10 | 40 | 25.2 | 430 | 0.09 | 700 |
| AC20-R18K-RC | .18 | 10 | 40 | 25.2 | 410 | 0.10 | 700 |
| AC20-R22K-RC | .22 | 10 | 40 | 25.2 | 380 | 0.12 | 700 |
| AC20-R27K-RC | .27 | 10 | 40 | 25.2 | 360 | 0.15 | 680 |
| AC20-R33K-RC | .33 | 10 | 40 | 25.2 | 350 | 0.16 | 680 |
| AC20-R39K-RC | .39 | 10 | 40 | 25.2 | 320 | 0.18 | 680 |
| AC20-R47K-RC | .47 | 10 | 40 | 25.2 | 300 | 0.26 | 650 |
| AC20-R56K-RC | .56 | 10 | 40 | 25.2 | 280 | 0.38 | 500 |
| AC20-R68K-RC | .68 | 10 | 40 | 25.2 | 250 | 0.42 | 500 |
| AC20-R82K-RC | .82 | 10 | 40 | 25.2 | 200 | 0.55 | 450 |
| AC20-1R0K-RC | 1.0 | 10 | 40 | 25.2 | 180 | 0.12 | 700 |
| AC20-1R2K-RC | 1.2 | 10 | 40 | 7.96 | 165 | 0.18 | 700 |
| AC20-1R5K-RC | 1.5 | 10 | 45 | 7.96 | 150 | 0.20 | 700 |
| AC20-1R8K-RC | 1.8 | 10 | 50 | 7.96 | 125 | 0.23 | 655 |
| AC20-2R2K-RC | 2.2 | 10 | 50 | 7.96 | 85 | 0.25 | 630 |
| AC20-2R7K-RC | 2.7 | 10 | 50 | 7.96 | 80 | 0.28 | 595 |
| AC20-3R3K-RC | 3.3 | 10 | 50 | 7.96 | 75 | 0.30 | 575 |
| AC20-3R9K-RC | 3.9 | 10 | 45 | 7.96 | 65 | 0.32 | 555 |
| AC20-4R7K-RC | 4.7 | 10 | 45 | 7.96 | 45 | 0.35 | 530 |
| AC20-5R6K-RC | 5.6 | 10 | 45 | 7.96 | 36 | 0.40 | 500 |
| AC20-6R8K-RC | 6.8 | 10 | 40 | 7.96 | 30 | 0.45 | 470 |
| AC20-8R2K-RC | 8.2 | 10 | 40 | 7.96 | 28 | 0.55 | 425 |
| AC20-100K-RC | 10 | 10 | 40 | 7.96 | 22 | 0.72 | 370 |
| AC20-120K-RC | 12 | 10 | 45 | 2.52 | 20 | 0.80 | 350 |
| AC20-150K-RC | 15 | 10 | 45 | 2.52 | 16 | 0.88 | 335 |
| AC20-180K-RC | 18 | 10 | 50 | 2.52 | 15 | 1.00 | 315 |
| AC20-220K-RC | 22 | 10 | 50 | 2.52 | 13 | 1.20 | 285 |
| AC20-270K-RC | 27 | 10 | 50 | 2.52 | 11 | 1.35 | 270 |
| AC20-330K-RC | 33 | 10 | 50 | 2.52 | 10 | 1.50 | 255 |
| AC20-390K-RC | 39 | 10 | 50 | 2.52 | 9.5 | 1.70 | 240 |
| AC20-470K-RC | 47 | 10 | 60 | 2.52 | 8.5 | 2.30 | 205 |
| AC20-560K-RC | 56 | 10 | 60 | 2.52 | 7.5 | 2.60 | 195 |
| AC20-680K-RC | 68 | 10 | 60 | 2.52 | 6.5 | 3.20 | 185 |
| AC20-820K-RC | 82 | 10 | 60 | 2.52 | 6.0 | 3.50 | 175 |
| AC20-101K-RC | 100 | 10 | 60 | 2.52 | 5.5 | 3.80 | 165 |
| AC20-121K-RC | 120 | 10 | 60 | .796 | 5.4 | 3.80 | 160 |
| AC20-151K-RC | 150 | 10 | 60 | .796 | 4.75 | 4.40 | 150 |
| AC20-181K-RC | 180 | 10 | 60 | .796 | 4.35 | 5.00 | 140 |
| AC20-221K-RC | 220 | 10 | 60 | .796 | 4.0 | 5.70 | 130 |
| AC20-271K-RC | 270 | 10 | 60 | .796 | 3.7 | 6.50 | 120 |
| AC20-331K-RC | 330 | 10 | 60 | .796 | 3.4 | 9.50 | 100 |
| AC20-391K-RC | 390 | 10 | 60 | .796 | 2.8 | 10.5 | 95 |
| AC20-471K-RC | 470 | 10 | 60 | .796 | 2.4 | 12.5 | 90 |
| AC20-561K-RC | 560 | 10 | 60 | .796 | 2.2 | 14.5 | 85 |
| AC20-681K-RC | 680 | 10 | 60 | .796 | 2.0 | 18.0 | 75 |
| AC20-821K-RC | 820 | 10 | 60 | .796 | 1.6 | 23.7 | 65 |
| AC20-102K-RC | 1000 | 10 | 60 | .796 | 1.15 | 30 | 60 |

All specifications subject to change without notice.